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NOTICE OF ALLOWANCE AND FEE(S) DUE

52349

7590

07/24/2009

WENDEROTH, LIND & PONACK L.L.P. 1030 15th Street, N.W. Suite 400 East Washington, DC 20005-1503

EXAMINER				
GRAY, JILL M				
ART UNIT	PAPER NUMBER			
1794				

DATE MAILED: 07/24/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595.054	01/19/2006	Akiko Yuasa	2005-1945A / P34722-05	1872

TITLE OF INVENTION: VACUUM HEAT INSULATING MATERIAL AND REFRIGERATING APPARATUS INCLUDING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/26/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS; This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ap in m

CURRENT CORRESPOND	ENCE ADDRESS (Note: Use Bl	ock 1 for any change of address)	Note	e: A certificate of m	ailing can only be used for	or domestic mailings of the
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1030 15th Street	, N.W.		Stat addı	es Postal Service wit	th sufficient postage for fir Stop ISSUE FEE address	g deposited with the United st class mail in an envelope above, or being facsimile late indicated below.
Suite 400 East Washington, DC	20005-1503		tran	smitted to the USPT	O (571) 273-2885, on the c	late indicated below.
washington, DC	20005-1305		<u> </u>			(Depositor's name)
			<u> </u>			(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,054	01/19/2006		Akiko Yuasa	2	2005-1945A / P34722-05	1872
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/26/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS			
GRAY,	JILL M	1794	428-034100			
1. Change of corresponde CFR 1.363).	ence address or indication	n of "Fee Address" (37	2. For printing on the p		1	
	ondence address (or Cha 3/122) attached.	nge of Correspondence	(1) the names of up to or agents OR, alternation	3 registered patent wely,	attorneys ¹	
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PTO/SB/47; Rev 03-0 Number is required.	ication (or "Fee Address') 2 or more recent) attach	ed. Use of a Customer	registered attorney or a 2 registered patent atto listed, no name will be	rnevs or agents. If no	o name is 3	
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or type	pe)		
PLEASE NOTE: Unl	ess an assignee is identi h in 37 CFR 3.11. Comr	fied below, no assignee	data will appear on the p T a substitute for filing an	atent. If an assignee	e is identified below, the d	locument has been filed for
(A) NAME OF ASSIG		rediction of this form is two	(B) RESIDENCE: (CITY		OUNTRY)	
			_	_		_
Please check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Corp	poration or other private gr	oup entity 🔲 Government
4a. The following fee(s)	are submitted:	4	b. Payment of Fee(s): (Ple a	se first reapply any	previously paid issue fee	shown above)
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☐ Advance Order - 1	# of Copies		overpayment, to Depo	sit Account Number	e the required fee(s), any de (enclose a	in extra copy of this form).
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interest as shown by the	records of the United Sta	tes Patent and Trademark	C Office.	пе аррисан, а гедыс	ered untorney or agent, or a	ne assignee of other party in
Authorized Signature				Date		
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This collection of inform	ation is required by 37 C	FR 1.311. The information	on is required to obtain or r	etain a benefit by the	e public which is to file (an	d by the USPTO to process)
an application. Confident submitting the completed	tiality is governed by 35 I application form to the	U.S.C. 122 and 37 CFR USPTO. Time will vary	1.14. This collection is est depending upon the indivice Chief Information Office COMPLETED FORMS TO	imated to take 12 mi idual case. Any com	inutes to complete, including the ments on the amount of ti	ng gathering, preparing, and me you require to complete
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52349 7590 07/24/2009			EXAMINER	
WENDEROTH,	LIND & PONACK I	GRAY,	JILL M	
1030 15th Street, N	J.W.	ART UNIT	PAPER NUMBER	
Suite 400 East Washington, DC 20005-1503			1794 DATE MAILED: 07/24/200	9

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 652 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 652 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	oplicant(s)	
	10/595,054	YUASA ET AL.		
Notice of Allowability	Examiner	Art Unit		
	Jill Gray	1794		
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with (OR REMAINS) CLOSED in or other appropriate commur IGHTS. This application is su	his application. If not included ication will be mailed in due course		
1. \boxtimes This communication is responsive to <u>amendment of March</u>	<u>1 30, 2009</u> .			
2. The allowed claim(s) is/are <u>1-2,4-9,11-15 renumbered 1-1</u>	<u>3</u> .			
3. Acknowledgment is made of a claim for foreign priority up a) ☐ All b) Some* c) None of the: 1. ☐ Certified copies of the priority documents have		(f).		
Certified copies of the priority documents have		No		
3. ☑ Copies of the certified copies of the priority do			om the	
International Bureau (PCT Rule 17.2(a)).	cuments have been received	in this hational stage application no	iii tiie	
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirem	ents	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			E OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review	(PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	<i>,</i>			
(b) ☐ including changes required by the attached Examiner'Paper No./Mail Date	s Amendment / Comment or i	n the Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			of	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			ie	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Info	rmal Patent Application		
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🗌 Interview Sui	nmary (PTO-413),		
3. Information Disclosure Statements (PTO/SB/08),	Paper No./M 7.	ail Date mendment/Comment		
Paper No./Mail Date4. Examiner's Comment Regarding Requirement for Deposit	8. ⊠ Examiner's S	tatement of Reasons for Allowance	€	
of Biological Material	9.			
/Jill Gray/				
Primary Examiner Art Unit: 1794				

Application/Control Number: 10/595,054 Page 2

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DETAILED ACTION

REASONS FOR ALLOWANCE

- 1. The following is an examiner's statement of reasons for allowance: Applicants' amendments and arguments of March 30, 2009 have been considered and found to be persuasive to overcome the prior art rejection. In particular the prior art of record does not teach or suggest a vacuum heat insulating material and refrigeration equipment, wherein the vacuum heat insulating material is essentially as claimed in the present claims, said insulating material comprising a core material containing inorganic fibers that include silicon oxide as a main component and wherein the surface of the inorganic fibers have a Si-OH/Si-O ratio of equal to or higher than 0.1 and equal to or lower than 1.0, said fibers being treated with moisture to result in the instant claimed ratio, and wherein the fibers are adhered to one another by intermolecular interaction of Si-OH groups existing at the surface of the inorganic fibers.
- 2. Prior art reference JP2002-081596, cited as an "X" reference in the PCT documents has been fully considered but not found to anticipate or render obvious the present claimed invention. In particular, the prior art reference does not teach or suggest the inorganic fibers having the claimed critical Si-OH/Si-O ratio of equal to or higher than 0.1 and equal to or lower than 1.0 on the fiber surface.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 1794

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jill Gray whose telephone number is 571-272-1524. The examiner can normally be reached on M-Th and alternate Fridays 8:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Keith Hendricks can be reached on 571-272-1401. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jill Gray/ Primary Examiner Art Unit 1794

jmg